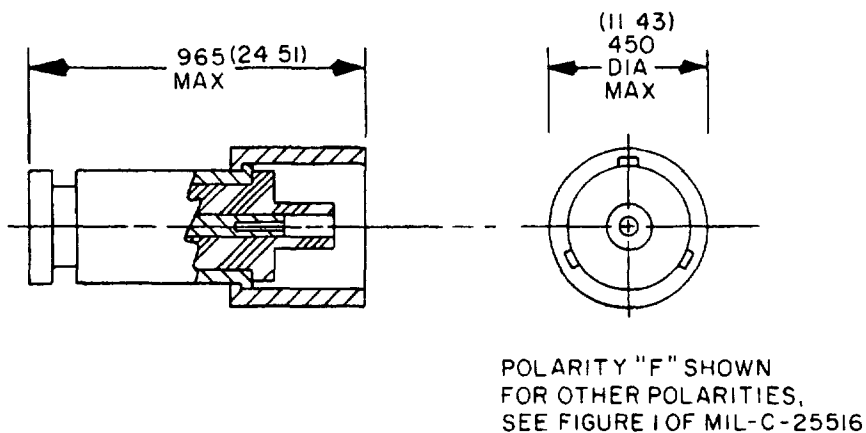


MILITARY SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, MINIATURE, COAXIAL, ENVIRONMENT RESISTANT TYPE,  
 COAXIAL, PLUG, SERIES I, CLASS G, TYPE 1

This specification is approved for use by all Departments  
 and Agencies of the Department of Defense.

The complete requirements for procuring connectors described herein shall  
 consist of this document and the issue in effect of MIL-C-25516.



NOTES

- 1 Dimensions are in inches.
- 2 Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
- 3 Metric equivalents are in parentheses
- 4 Mating dimensions shall be accordance with MIL-C-25516
- 5 Cable entry dimensions shall be suitable to accommodate the associated cable dimensions as specified in the Appendix of MIL-C-25516
- 6 The maximum envelope dimensions are 965 and 450

FIGURE 1 Connector, electrical plug

## REQUIREMENTS.

Dimensions and configuration See figure 1.

## Environmental and Mechanical

Visual and mechanical inspection Applicable  
 Contact engaging and separating forces Applicable  
 Resistance to test probe damage Applicable  
 Contact retention Applicable  
 Durability Applicable.  
 Cable retention force Applicable.  
 Side load Applicable  
 Hermetic sealing Not applicable  
 Thermal shock Applicable  
 Shock Applicable  
 Vibration Applicable.  
 High temperature Applicable.  
 Fuel immersion Applicable.  
 Altitude humidity cycling Applicable  
 Ozone exposure Applicable.  
 Corrosion resistance Applicable.  
 Sulphide immersion Applicable  
 Maintenance aging Applicable.

## Electrical

Insulation resistance Applicable.  
 Dielectric withstanding voltage. Applicable.  
 Contact resistance Applicable  
 Low signal level contact resistance Applicable  
 Shield clamp resistance Shall not exceed 10 millohms (shielded cables only).

Part number M25516/20- (dash number from table I) 1/.

TABLE I. Dash number and polarity 2/

Notes	Dash number	Polarity	*Associated cable
*Complete part number consists of added digits describing typical cable	-03	E	-XX
See appendix	-04	F	-XX
The letters (A, B, E, etc.) are not part of part number	-05	J	-XX
	-06	K	-XX
	-07	L	-XX
	-08	M	-XX

- 1/ Dash numbers -01 (configuration A), -02 (configuration B), -09 (configuration N) and -10 (configuration O) per figure 1 of the basic are cancelled  
2/ Inactive for new design for Naval Air Systems Command

NOTE Letters are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes

Custodians  
 Navy - EC  
 Air Force - 85

Preparing activity  
 Air Force - 85  
 (Project 5935-3076-5)

Review activities  
 Navy - AS  
 Air Force - 99  
 DLA - ES

## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

**INSTRUCTIONS** This form is provided to solicit beneficial comments which may improve this document and enhance its use. DoD contractors, government activities, manufacturers, vendors, or other prospective users of the document are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity. A response will be provided to the submitter, when name and address is provided, within 30 days indicating that the 1426 was received and when any appropriate action on it will be completed.

**NOTE** This form shall not be used to submit requests for waivers, deviations or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

DOCUMENT IDENTIFIER (Number) AND TITLE

MIL-C-25516/20C

NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

☐ VENDOR      ☐ USER      ☐ MANUFACTURER

1 ☐ HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?      ☐ IS ANY PART OF IT TOO RIGID, RESTRICTIVE, LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW

A GIVE PARAGRAPH NUMBER AND WORDING

B RECOMMENDED WORDING CHANGE

C REASON FOR RECOMMENDED CHANGE(S)

2 REMARKS

SUBMITTED BY (Printed or typed name and address — Optional)

TELEPHONE NO

DATE

FOLD

**OFFICIAL BUSINESS**  
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF AIR FORCE  
DOD 318



AFALD/PTES-STDN  
WPAFB, OH 45433

FOLD